

FIG. 2

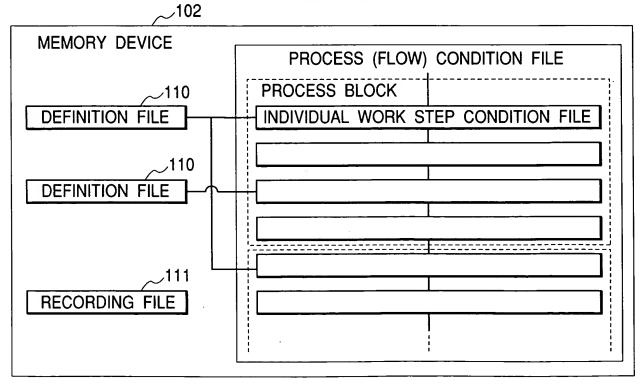
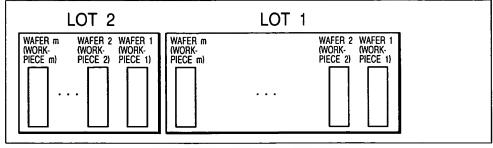
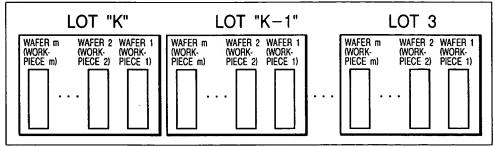


FIG. 3

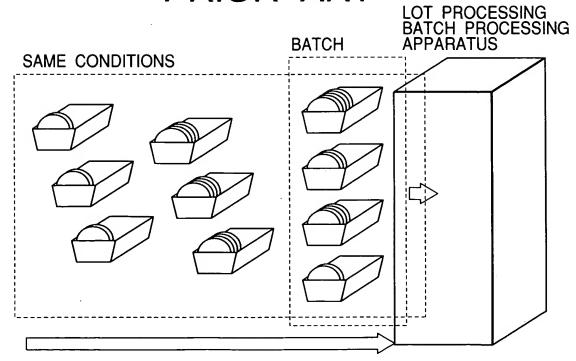


CARRIER: 001 (SHIP: 001)

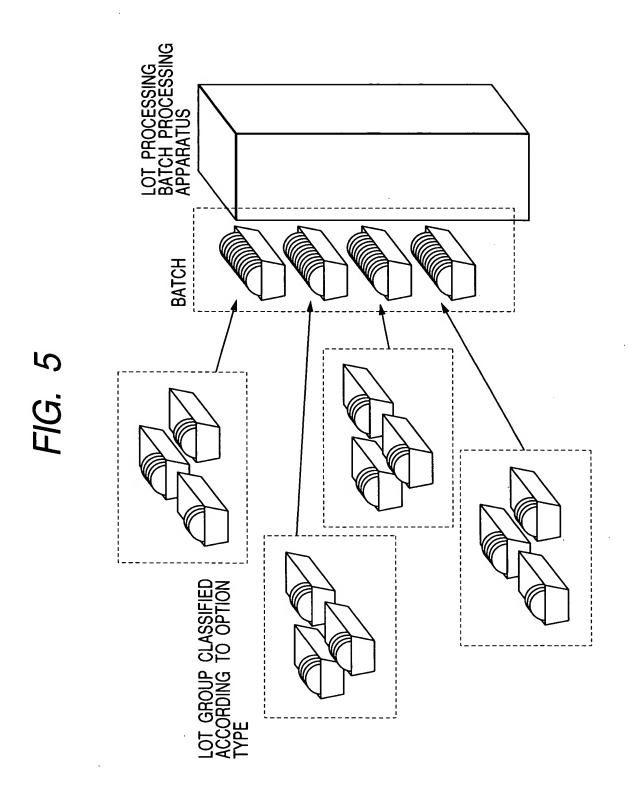


CARRIER: 002 (SHIP: 002)

FIG. 4 PRIOR ART



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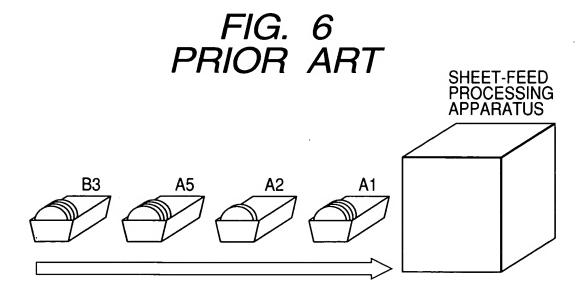


FIG. 7

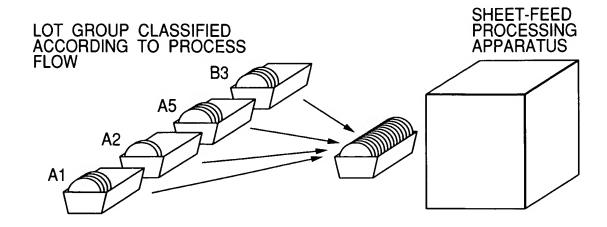


FIG. 8

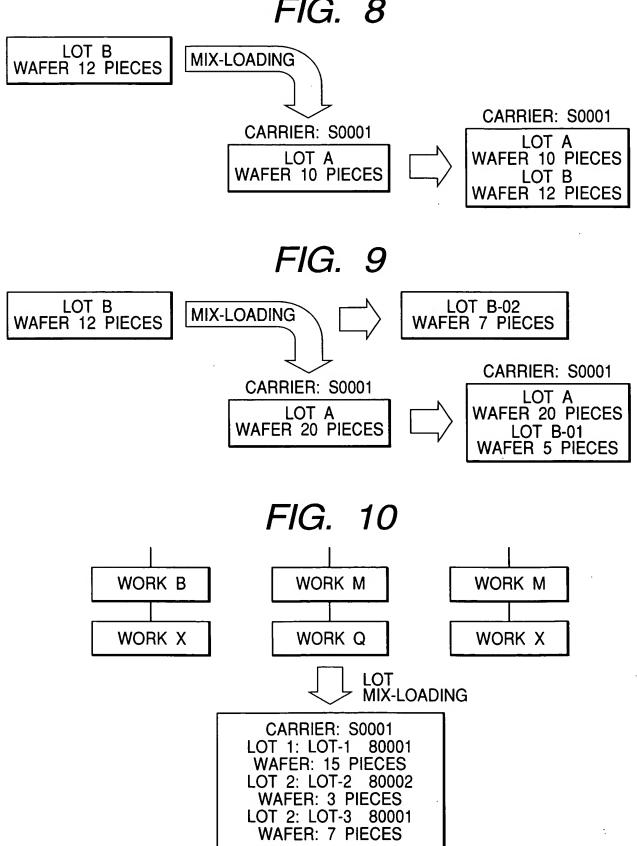
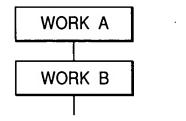


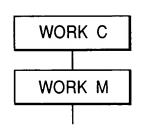
FIG. 11

CARRIER: S0001 LOT 1: LOT-1 80001 WAFER: 15 PIECES LOT 2: LOT-2 80002 WAFER: 3 PIECES LOT 2: LOT-3 80001 WAFER: 7 PIECES



CARRIER: S0001 LOT: LOT-1 80001 WAFER: 15 PIECES CARRIER: S0002 LOT: LOT-2 80002 WAFER: 3 PIECES CARRIER: S0003 LOT: LOT-3 80001 WAFER: 7 PIECES





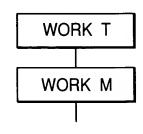


FIG. 12

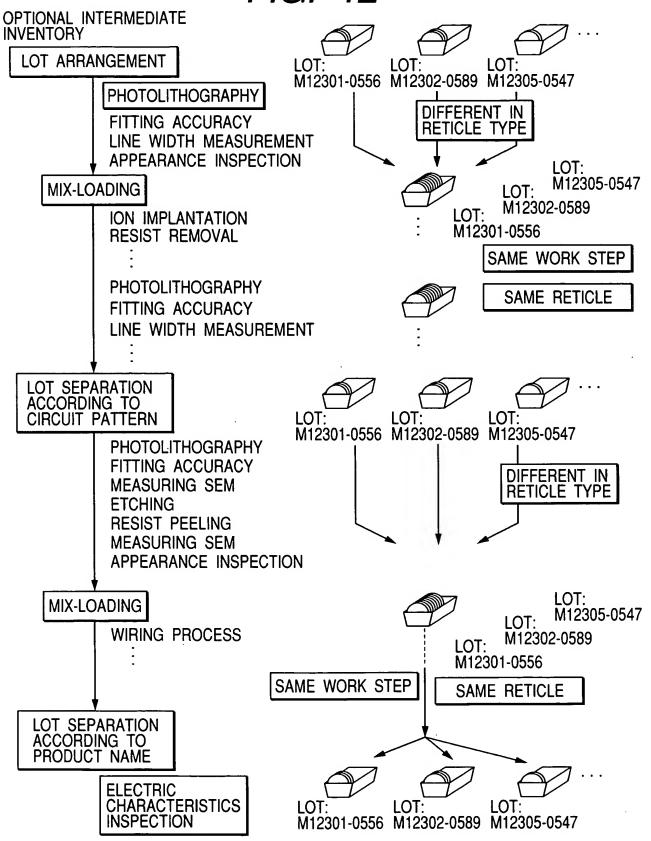


FIG. 13

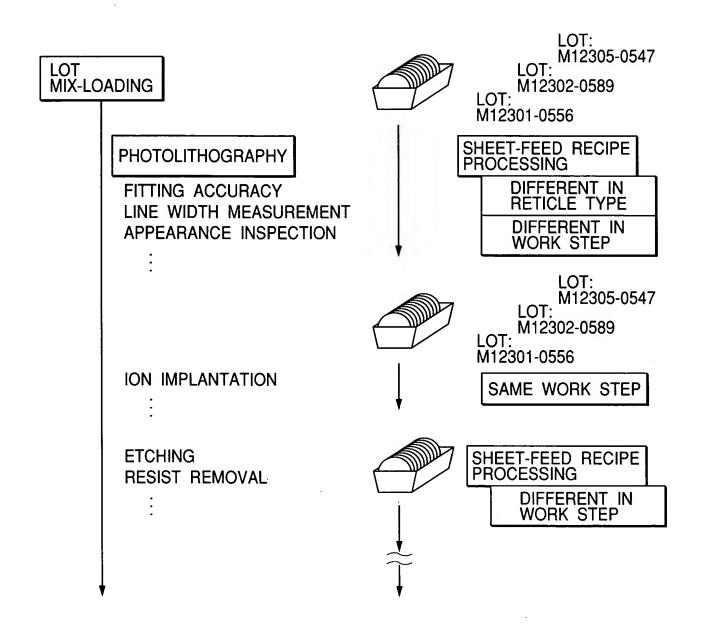


FIG. 14

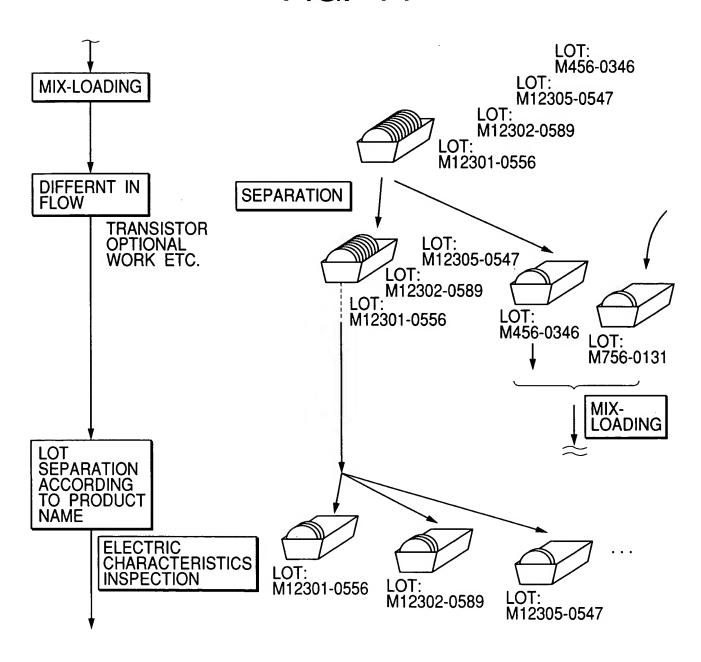


FIG. 15

NEW SYSTEM

CARRIER	LOT
S0123	MZ12301-0156
S0123	MZ12301-0154
S0123	MZ12303-0159
S0123	MZ12309-0140

OLD SYSTEM

	CARRIER	LOT	
	S0123	MZ12301-0156	
1 1 1 1	#0001	MZ12301-0154	
	#0002	MZ12303-0159	
1 1 1 1	#0003	MZ12309-0140	

VIRTUAL CARRIERS USABLE IN SYSTEM

16. 16

		CONVENTIONAL		MIX-LOADING WORK STEP (DING ONLY IN SAME	I SAME ONS	MIX-LOADING DIFFERENT V	MIX-LOADING IN BOTH SAME AND DIFFERENT WORK STEP CONDITIONS	ME AND CONDITIONS
	PRODUCTION WORKPIECE RATE	LOADED WORKPIECE NUMBER/ CARRIER	WORKPIECE LOADING RATE	Production Workpiece Rate	LOADED WORKPIECE NUMBER/ CARRIER	WORKPIECE LOADING RATE	Production Workpiece Rate	Loaded Workpiece Number/ Carrier	WORKPIECE LOADING RATE
PROCESS FLOW GROUP 1	2.5%	25.0	100.0%	2.5%	25.0	100.0%	2.5%	25.0	100.0%
PROCESS FLOW GROUP 2 1ST HALF	6.3%	23.2	95.9%	6.3%	23.2	92.9%	6.3%	23.2	95.9%
PROCESS FLOW GROUP 2 2ND HALF	6.2%	2.8	11.4%	6.2%	21.4	85.7%	6.2%	23.4	93.7%
PROCESS FLOW GROUP 3 1ST HALF	14.3%	20.9	83.6%	14.3%	20.9	83.6%	14.3%	20.9	83.6%
PROCESS FLOW GROUP 3 2ND HALF	13.1%	2.8	11.2%	13.1%	23.3	93.1%	13.1%	24.1	96.4%
PROCESS FLOW GROUP 4 1ST HALF	18.6%	19.9	79.6%	18.6%	19.9	%9:6/	18.6%	19.9	%9.62
PROCESS FLOW GROUP 4 2ND HALF	13.0%	3.6	14.4%	13.0%	22.6	%9:06	13.0%	24.3	97.3%
PROCESS FLOW GROUP 5 1ST HALF	2.4%	25.0	100.0%	2.4%	25.0	100.0%	2.4%	25.0	100.0%
PROCESS FLOW GROUP 5 2ND HALF	5.3%	12.2	48.6%	5.3%	22.8	91.1%	5.3%	23.8	95.1%
PROCESS FLOW GROUP 6 1ST HALF	2.6%	19.3	77.3%	2.6%	19.3	77.3%	2.6%	19.3	77.3%
PROCESS FLOW GROUP 6 2ND HALF	2.2%	2.6	10.5%	2.2%	20.0	79.8%	2.2%	22.0	87.8%
PROCESS FLOW GROUP 7	3.5%	24.5	98.1%	3.5%	24.5	98.1%	3.5%	24.5	98.1%
PROCESS FLOW GROUP 8	7.1%	25.0	100.0%	7.1%	25.0	100.0%	7.1%	25.0	100.0%
ENTIRETY	100.0%	6.9	27.5%	100.0%	21.9	87.6%	100.0%	22.4	%9.68

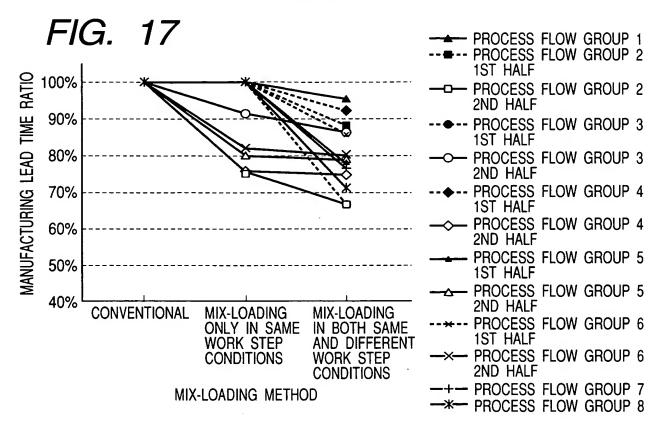
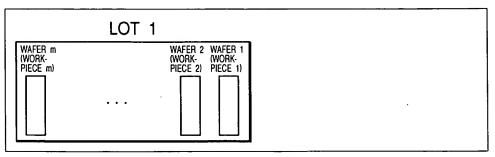


FIG. 18 PRIOR ART



CARRIER: 001 LOT 1

LOT 2			
WAFER m WAFER 2 WAFER 1 (WORK- (WORK- PIECE m) PIECE 2) PIECE 1)			
	•		

CARRIER: 002 LOT 2